

1     **METHOD AND APPARATUS FOR DEBLURRING AND RE-BLURRING IMAGE**  
2                                   **SEGMENTS**

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4                                   Abstract of the Disclosure

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6                   Using image segmentation in video compression brings about a limitation in  
7 video quality when a segment moves in position from frame to frame. The limitation arises  
8 because color contributions (bleeding or blurring) naturally occur between neighboring  
9 segments. The above-identified problem is overcome by providing solutions to compensate  
10 for color contributions between neighboring segments. In accordance with one embodiment,  
11 a method and apparatus de-blurs an image segment. De-blurring involves removing from the  
12 segment approximate color contributions from neighboring segments. This results in a  
13 segment that is approximately independent of color contributions from neighboring segments.  
14 In accordance with another embodiment, a method and apparatus re-blurs an image segment.  
15 Re- blurring involves adding to the segment approximate color contributions from a new  
16 arrangement of neighboring segments. This results in more realistic rendering of the  
17 segment, as it is located in the new arrangement.  
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